APAL

Floodlight

APOLO L



Flat-profile Floodlight specifically designed for sports stadium lighting. This family offers three different sizes and a wide power range, from 250W to 1500W. It is available with multiple light distributions to suit each project. Its bracket-mounted design allows for tilting at any angle. It is designed for any dimming control system. It also includes a laser pointer mount for precise aiming of the Floodlights .

MAIN FEATURES:

High efficiency. Up to 173.8 lm/W actual.
3 different sizes. From 250W to 1500W
Ultralight IP compact driver
Independent module regulation
High heat dissipation capacity
DALI & DMX control
High resistance to 5G vibrations
Aluminum and magnesium body to reduce weight and improve heat transfer
Centralized junction box with watertight connectors for easy installation

APPLICATIONS:

Large Area Sports Facilities; Football, Rugby, Athletics
Major Infrastructure Projects; Airports and Ports

Project sheet | CAD | Mounting instructions | HD image

BENITO

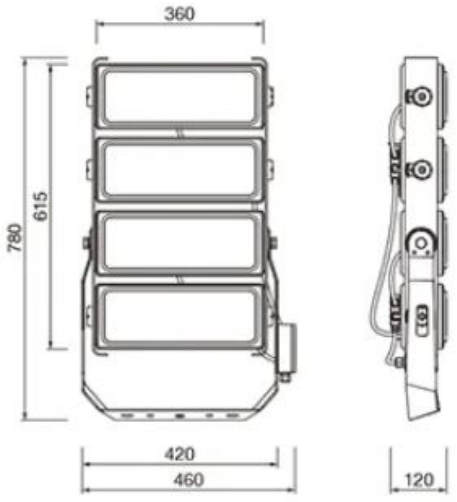
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SPECIFICATIONS :

Housing material:	Die-cast aluminum and magnesium alloy of type EN AC-43000, EN AC-43100, EN AC-43400, EN AC-44100, EN AC-47100 according to standard UNE EN 1706. Aluminum extrusion modules
Diffuser (optic system enclosure):	Polycarbonate
Fixing elements:	18/8 Stainless Steel - AISI 304
Housing:	Modular with single fork
Sealing gaskets:	Silicone Foam
IP rating (luminaire):	IP66
IP rating (optic system):	IP66
IK rating (impact resistance):	IK09
LEDs thermal dissipation:	Heat dissipation through LED modules. Passive dissipation by convection and ensuring thermal contact of the LED modules through high conductivity heat transfer material.
Anti-condensation valve:	Pressure compensation valve that ensures the evacuation of moisture, preventing condensation, maintaining the IP rating of the luminaire.
Paint and finishes:	Polyester powder coating, electrostatically sprayed and oven-sublimated. Corrosion resistant.
Colour:	RAL 9022 color and other colors available upon request
Mounting:	Steel lyre reinforced with U-profile
Tilt range:	Adjustable Floodlight with +20°/-20° tilt.
Maintenance:	Replaceable modules: LEDs, Drivers, SPD. Driver module easily disconnectable via IP67 waterproof connectors.
Recommended mounting height:	18 - 40 m.
Driver:	Adjustable and programmable constant current driver.
Flow Reduction:	DALI & DMX Adjustable Driver
Ready4IOT - Connectivity:	- Autonomous multiple-level dimming or virtual midnight - Ready4IoT - Dimming by main voltage - Line switch
Surge protection device (SPD):	Optional 10-20kV and 20kA Type 2 Transient Surge Protector (SPD). Series connection with thermal disconnection fuse for more effective protection at the end of the SPD's life. Optional FULL PROTECTOR
DarkSky Approved	

DRAWING:



INSTALLATION:



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4000 K 5000 K

lm/€ CRI >70% TRIPLE PROTECTION

TECHNICAL DATA:

	REF.	Nº LEDs	Power W	I Driver mA	Real luminous flux (T) =85ºC) Flux lm	Real luminous flux (T) =85ºC) Efficacy lm/W	Initial luminous flux (T) =25ºC) Flux lm	Initial luminous flux (T) =25ºC) Efficacy lm/W
		264	600	720	100200	167	109200	182
APOLO L	APAL	264	800	960	133600	167	144000	180
		264	1000	1200	167000	167	179000	179

LEDs: 7070

Nominal efficacy LED: 182 lm/W.

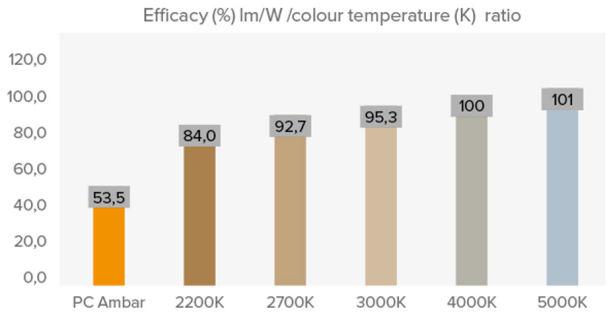
Maximum LED current: 1000 mA.

LED current = Driver current/2

Lifetime L90B10: >100,000 hours.

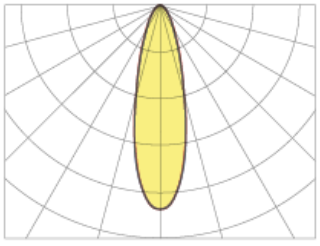
Luminous flux and efficacy at 5700ºK and CRI>70.

Luminous flux and efficiency at 4000K and CRI>70 – Tolerance ± 3%

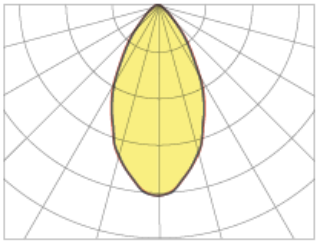


PHOTOMETRY:

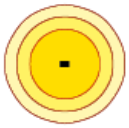
Circular 25º (C3)



Circular 50° (C5)







*Show 4 recommended lighting distributions. Refer to the 18 typologies.

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LEDs MODULE:

LEDs module:	BENITO Zhaga format with 8, 12 and 16 LEDs. Consult for Color Temperatures, CRI and Light Distributions.
Replaceable module:	YEAH
LED:	7070
Number of LEDs:	264
PCBs format:	
LED nominal efficacy:	182
Colour temperature:	4K, 5K, 5K7, check other temperatures
Colour rendering index CRI:	>70 (optional >80)
Average LED useful time L90B10:	L90B10 >100,000 hours

OPTIC SPECIFICATIONS:

Optic system:		PMMA lenses
Light distributions:		7 light distribution curves
Upward light output ratio ULOR:		0%
Downward light output ratio DLOR:		100%
Glare index:		Between D5 and D6 (depending on the light distribution)
Luminous intensity category:		Between G*4 and G*6 (depending on the light distribution)
Luminous flux CIE nº3:		>95%
Photobiological safety:		RG0 (risk-free)
Initial luminous flux Tj=25ºC (up to):	lm	179000
Initial luminaire efficacy Tj=25ºC (up to):	lm/W	179
Real luminous flux Tj=85ºC (UNE EN 13032-4) (up to):	lm	151000
Real luminaire efficacy Tj=85ºC (UNE EN 13032-4) (up to):	lm/W	151

ELECTRIC SPECIFICATIONS:

Nominal maximum power (LEDs):	W	900
Maximum power consumed (luminaire):	W	1000
Power range:	W	600 - 1000W
Maximum current of LED:	mA	<400 (<50% Imax)
Power supply protection classes IEC:		Class I and II
Surge protection device (SPD):		10-20kV and 20kA Type 2 Transient Surge Protector (SPD). Series connection with thermal disconnection fuse for more effective protection at the end of the SPD's life. Optional FULL PROTECTOR
Common and differential mode protection (SPD) Udc:	kV	10 and others upon request
Max current (8/20) (SPD):	kA	20
Thermal phase disconnection (SPD):		Yes
Input voltage:	Vac	220-240
Input voltage (max rate):	Vac	198-264
Input frecquency:	Hz	47-63
Starting current:	A	<65
Duration of the starting voltage peak:	ms	<0,3
Driver efficacy:		>95%
Power factor 100% consumption:		>0,98
Power factor 50% consumption:		>0,95
Total harmonic distortion (THD):		<10
Power consumption on standby mode:	W	<0.4
Energy class:		C (According to EU Regulation 2019/2015 EPREL) - A++ IPEA>1.15.

OPERATING CONDITIONS:

Average LED useful time L90B10:	hours	100.000
Average driver useful life to Tp <70ºC:	hours	100.000
Average luminaire useful life L90B10 (TM-21):	hours	72.167
Ambient temperature (Ta):	ºC	from -35°C to +50°C
Aerodynamic resistance (CxS):	m2	0,445
Vibration test (15Hz 3 axis):		
Guarantee:	Years	5 years (extensible up to 10 years)

PACKAGING DIMENSIONS:

Net weight	kg	17,5 (driver 5)
Gross weight	kg	18,5 (driver 5,5)
Luminaire dimensions (LxWxH)	mm	736x440x130 (driver 500x150x81)
Packaging dimensions (LxWxH)	mm	805x435x160
Pieces per box		1
Quantity per container 20ft		
Quantity per container 40ft		

CERTIFICATES:

Security certificates:	EN 60598-1 / EN 60598-2-5 / EN 62493 / IEC 62473
EMC certificates:	EN 55015 / EN 61547 / EN 61000-3-2 / EN 61000-3-3 / EN 61347-2-13 / EN 61347-1 / EN 62384
Other certifications:	IEC 62262 / EN 13032-4 / EN 62717 / EN 6272-1 / EN 6272-2-1 / EN 61643-11

Company Certifications

ISO 9001 ISO 50001 ISO 14001 ISO 45001

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